Fig. 1

Fig. 2

```
<!-- A T-Model that is used to categorize a tModel by/with a particular external description type/format. -->
<!-- This is a canonical categorization scheme T-Model for categorizing service providers external service
capability descriptions -->
                                                                    302

<tModel authorizedName=" " operator=" ..." tModelKey="UUID:205B16DD-078E-4EB5-81A4-3FE628E00D4B">
    <name>urn:x-ibm:DescribedUsing</name>            301
    <description xml:lang="en"> Used to categorize a tModel by/with a particular external description type/format.
</description>

    <overviewDoc>
        <description xml:lang="en"> This URL should point to a web page that has a list of potential markup
languages that can be used to describe business services. </description>
        <overviewURL> http://localhost/semanticuddi </overviewURL>
                                                        303
    </overviewDoc>

    <categoryBag>
    <keyedReference
        tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
        keyName="types"
        keyValue="categorization"/>
    </categoryBag>

</tModel>
```
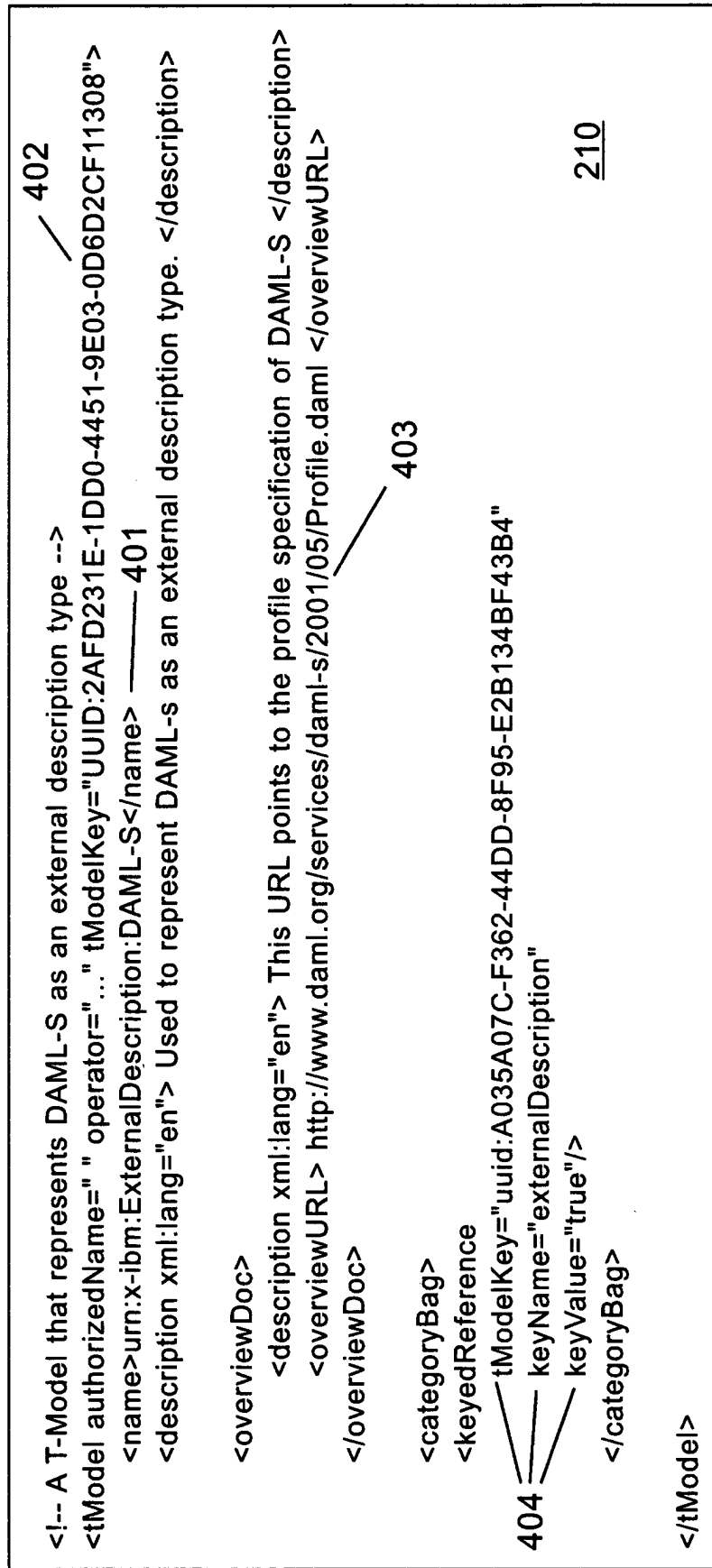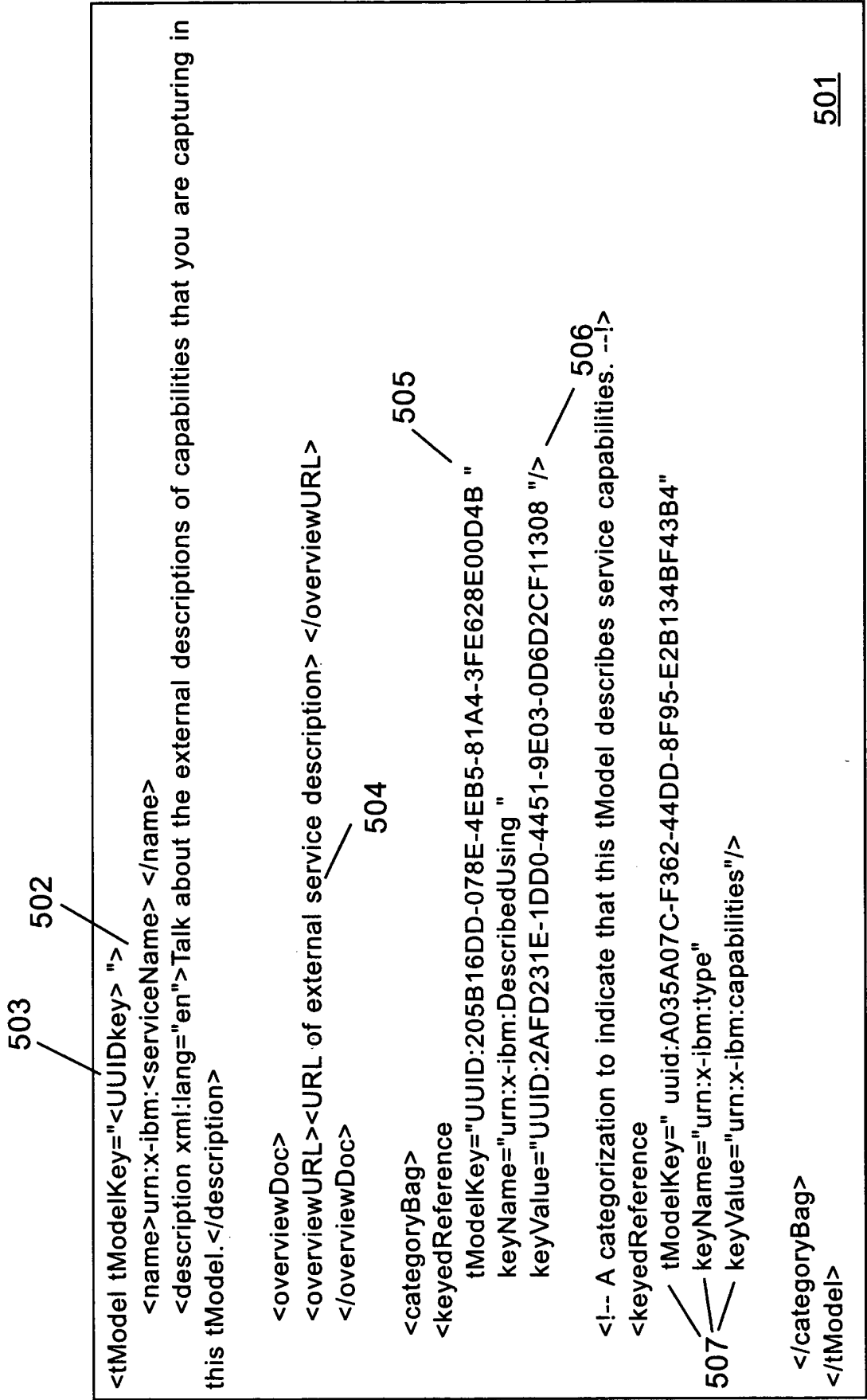
304

209

Fig. 3

```
<!-- A T-Model that represents DAML-S as an external description type -->
<tModel authorizedName=" " operator=" ... " tModelKey="UUID:2AFD231E-1DD0-4451-9E03-0D6D2CF11308">    402
    <name>urn:x-ibm:ExternalDescription:DAML-S</name>    401
    <description xml:lang="en"> Used to represent DAML-s as an external description type. </description>

    <overviewDoc>
        <description xml:lang="en"> This URL points to the profile specification of DAML-S </description>
        <overviewURL> http://www.daml.org/services/daml-s/2001/05/Profile.daml </overviewURL>    403
    </overviewDoc>

    <categoryBag>
        <keyedReference
            tModelKey="uuid:A035A07C-F362-44DD-8F95-E2B134BF43B4"
            keyName="externalDescription"
            keyValue="true"/>
    </categoryBag>    404

</tModel>
```

210

Fig. 4

```
<tModel tModelKey=" <UUIDkey> ">
   <name>urn:x-ibm:<serviceName> </name>
   <description xml:lang="en">Talk about the external descriptions of capabilities that you are capturing in
this tModel.</description>

   <overviewDoc>
   <overviewURL><URL of external service description> </overviewURL>
   </overviewDoc>

   <categoryBag>
   <keyedReference
      tModelKey="UUID:205B16DD-078E-4EB5-81A4-3FE628E00D4B "
      keyName="urn:x-ibm:DescribedUsing "
      keyValue="UUID:2AFD231E-1DD0-4451-9E03-0D6D2CF11308 "/>

   <!-- A categorization to indicate that this tModel describes service capabilities. --!>
   <keyedReference
      tModelKey=" uuid:A035A07C-F362-44DD-8F95-E2B134BF43B4"
      keyName="urn:x-ibm:type"
      keyValue="urn:x-ibm:capabilities"/>

   </categoryBag>
</tModel>
```

503 502

504

505

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501

Fig. 5

```
<tModel operator="..." tModelKey="<UUIDKey> ">          602
  <name>urn:x-ibm:<client service Name> </name>           603
  <description xml:lang="en"> A tModel to reference the external description of client's service request
  </description>

  <overviewDoc>
    <description xml:lang="en"> This URL points to the external service description of client's request.
    </description>
    <overviewURL> URL points to the external service description of client's request.</overviewURL>    604
  </overviewDoc>

  <categoryBag>
    <keyedReference
      tModelKey="uuid: 205B16DD-078E-4EB5-81A4-3FE628E00D4B"          605
      keyName="urn:x-ibm:DescribedUsing"
      keyValue="uuid:2AFD231E-1DD0-4451-9E03-0D6D2CF11308"/>          606

<!-- A categorization to indicate that this tModel describes service requirements. à
    <keyedReference
      tModelKey=" uuid:A035A07C-F362-44DD-8F95-E2B134BF43B4"
      keyName="urn:x-ibm:type"          607
      keyValue="urn:x-ibm:requirements"/>
  </categoryBag>

</tModel>
```

601

Fig. 6

```
<!-- A canonical categorization scheme T-Model for categorizing service requesters external request descriptions

<tModel operator=" ... " tModelKey="UUID:2C232168-1A1A-4C4D-BA39-0EA0315827E0">     703
    <name>urn:x-ibm:ClientRequirementsCatergorisationTmodel</name>     702
    <description xml:lang="en"> Used in a find_tModel call to pass a client tModel that refers to an external
description that is to be matched. </description>

    <overviewDoc>
        <description xml:lang="en"> This URL points to a web page that describes new categorization for
client requirements </description>
        <overviewURL> http://localhost/semanticuddi </overviewURL>
    </overviewDoc>     704

    <categoryBag>
        <keyedReference
        tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
705     keyName="types"
        keyValue="categorization"/>
    </categoryBag>
</tModel>
```

701

Fig. 7

```
<!-- A T-Model that defines the interface for External Matching Service -->  ——— 803
<tModel authorizedName=" " operator="..." tModelKey="<UUIDKey>">
  <name><External Matching Service Interface Name></name>  ——— 802
  <description xml:lang="en"> Represents the interface to an external matching service </description>

  <overviewDoc>
      <description xml:lang="en"> This URL points to the standardized interface for invoking external
matches from UDDI Server </description>
      <overviewURL> <URL of External Matching Service WSDL interface document> </overviewURL>  ——— 804
  </overviewDoc>

  <categoryBag>
  <keyedReference
      tModelKey="uuid:C1ACF26D-9672-4404-9D70-39B756E62AB4"
805 ┤ keyName="uddi-org:types"
      └ keyValue="wsdlSpec"/>
  </categoryBag>

</tModel>                                                                      801
```

Fig. 8

Fig. 9